UPGRADING THE CORVUS CONCEPT OPERATING SYSTEM TO VERSION 1.2

The latest version of the Corvus Concept Operating System (CCOS) can be easily installed to work with your present system if you have version 1.1a of CCOS. If you do not have version 1.2 software on your system, you will have to sysgen your disk using the new release diskettes.

UPDATING THE OPERATING SYSTEM

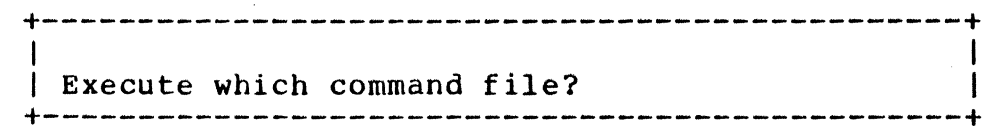
The first step in updating the operating system is to make sure you have read-write access to both the CCSYS and CCUTIL volumes. Make sure there are no personal files or non-Corvus-supplied files in the CCSYS or CCUTIL volumes. If there are any such files there may not be enough space to store all the system files. Transfer any non-system files to another volume before going any further with these steps.

1. FOR THOSE USING 8-INCH DISKETTES
   PLACE THE FSYSGEN DISKETTE IN THE DISKETTE DRIVE.

   Complete this step, then go to step 3.

   Hold down the **[COMMAND]** key and
   Press **[ExecFile]**

   The Command window asks for the file name:



   Type **/FSYSGEN/PURG.1.2**
   Press **[RETURN]**

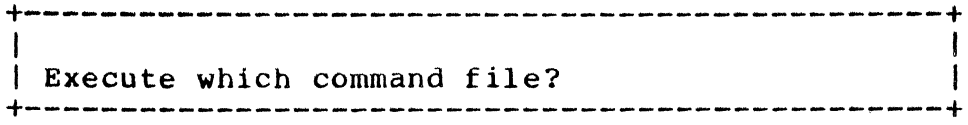
The file PURG.1.2 deletes files from the operating system version number 1.1A, thereby quickening the update procedure.

2. FOR THOSE USING 5 1/4-INCH DISKETTES
PLACE THE FBOOT DISKETTE IN THE DISKETTE DRIVE.

Complete this step, then go to step 3.

Hold down the **[COMMAND]** key and
Press **[ExecFile]**

The Command window asks for the file name:



Type **/FBOOT/PURG.1.2**
Press **[RETURN]**

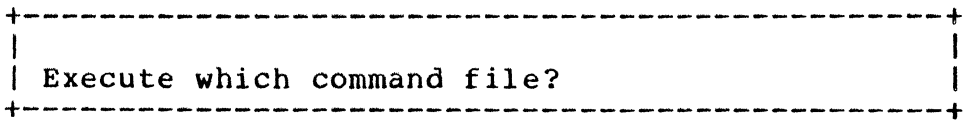
The file PURG.1.2 deletes files from the operating system version number 1.1A, thereby quickening the update procedure.

3. COPY THE CONTENTS OF /FBOOT TO THE DISK DRIVE.

Place the FBOOT diskette in the diskette drive.

Hold down the **[COMMAND]** key and
Press **[ExecFile]**

The Command window asks for the file name:



Type **/FBOOT/SYSTEM.UPDATE**
Press **[RETURN]**

The System window displays the following:

```
;
; File ID: /FBOOT/SYSTEM.UPDATE
;
; SYSTEM.UPDATE assumes volumes /CCSYS and /CCUTIL exist
; and have read/write access
;
Continue? [Y/N]:
```

Press **Y**

Press **Y** for yes, and answer any other questions with **Y** for yes. The files that are being transferred to CCSYS already exist, so the update asks if it should delete the old version of each file. The Exec file called PURG.1.2 that was executed in the first step deleted the files that are not needed to boot.

All files on this diskette are automatically copied to the hard disk. When the Dispatcher labels return the copy is complete.

The System window displays:

```
;
; SYSTEM.UPDATE complete
;
```

4. REBOOT THE SYSTEM.

Hold down **[CTRL]** and
Press **[BREAK]**

COPYING SYSTEM FILES TO THE HARD DISK

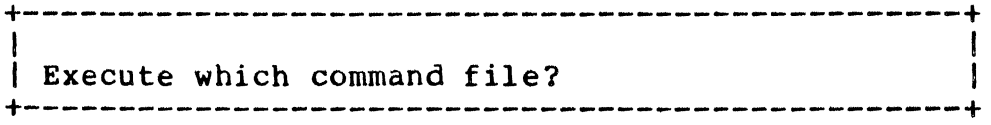
Copy the rest of the Corvus-supplied software onto the disk from diskettes.

1. LOG-ON AS SMGR.

2. RUN THE SYSTEM GENERATION EXECFILE.

Hold down the **[COMMAND]** key and
Press **[ExecFile]**

You will be prompted for a filename in the Command Window:



Type **/CCSYS/SGEN**
Press **[RETURN]**

The System window displays:

```
;
; File ID: SGEN.TEXT
;
; SGEN.TEXT assumes volumes /CCSYS and /CCUTIL exist
; and have read/write access
;
; The next step is to copy the system software from floppy
; disks to the Corvus disk.
;
; Place floppy disk /FSYSGEN in the floppy disk drive.
;
Ready to continue? [Y/N]:
```

If you have an 8 inch diskette drive, do this:

> Place the CONCEPT SYSGEN DISKETTE FSYSGEN in the diskette drive and close the latch.

If you have a 5 1/4 inch diskette drive, you will be prompted to place the /FCCSYS1 diskette in the diskette drive. Do this:

> Place the CONCEPT SYSTEM DISKETTE FCCSYS1 in the diskette drive and close the latch.

Press Y twice.

Answer any other questions with Y for yes. Some of the files that are being transferred already exist, so the update asks if it should delete the old version of each file.

Most files on this diskette are automatically copied to the hard disk. When the copy is complete, you will be prompted with the name of another diskette to place in the diskette drive.

Follow the instructions on the screen and continue pressing Y to all prompts asking for a YES or NO to continue.

When the Dispatcher labels return, the copy is complete.

WHAT TO DO IF YOU MAKE A MISTAKE DURING SGEN

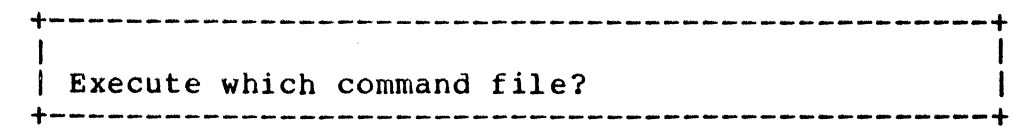
If you do not put in a diskette in the order asked by the SGEN procedure, SGEN skips that diskette and prompts you with the name of the next diskette in the series. Continue the procedure, placing the diskette for which you are prompted in the diskette drive.

When the SGEN procedure is finished, you may go back to the diskettes you missed. Use the following procedure for each diskette that you accidentally skipped.

1. PLACE THE SKIPPED DISKETTE IN THE DISKETTE DRIVE.

   Hold down the **[COMMAND]** key and
   Press **[ExecFile]**

   You will be prompted for a filename in the Command window:



2. TYPE THE NAME OF THE SKIPPED DISKETTE.

Type the name of the diskette followed by the name of the exec file, SYSTEM.UPDATE, found on every diskette.

Say, for example, the diskette you skipped was named FCCSYS2.

Type **/FCCSYS2/SYSTEM.UPDATE**
Press **[RETURN]**

3. ANSWER YES TO THE PROMPTS.

Press **Y**

HOW TO LOAD ADDITIONAL SOFTWARE

You may have purchased additional software such as Pascal, FORTRAN, C, or Corvus Logicalc. To load this software, see the software loading instructions that come with each diskette.

UPDATING THE BOOT FILE

The boot file is in the CORVUS volume which is not normally mounted, and you may not have have read-write access. **This step can be dangerous to your files if you do not follow the directions carefully.** The first step is to be sure you have read-write access to the CORVUS volume. Because of a bug in the software, if you do not have read-write access you can remove the file BOOT.CONCEPT but you cannot add it. If that happens it is not possible to boot from the drive.

1. SET ACCESS TO THE CORVUS VOLUME.

Enter the Access manager to make the CORVUS volume mounted with read-write access for SMGR.

Press **[Const II]**
Press **[Drive Manager]**
Press **[Access Manager]**

Type the appropriate passwords to enter the Access Manager.

Type **SMGR**
Press [RETURN]

Press **[Change Access]**

Type **CORVUS**
Press **[RETURN]**

Type **RW**
Press **[RETURN]**

Type **MOUNTED**
Press **[RETURN]**

Press **[RETURN]**

Press **[RETURN]**

Press **[SPACE]**

Press **[Exit]**

Press **[Exit]**

2. REBOOT THE SYSTEM LOGGING ON AS SMGR.

   Hold down the **[CTRL]** key and
   Press **[BREAK]**

3. LIST YOUR VOLUMES.

   Press **!**
   Press **[ListVol]**.

   The exclamatin point ListVol will list all the volumes mounted and their read-write status. Make sure that the volume CORVUS is listed there with RW to the right. If not return to the Access Manager and mount the CORVUS volume with read-write access.

4. FOLLOW THE SEQUENCE OF THESE STEPS EXACTLY:

   Press **[Const II]**
   Press **[Drive Manager]**
   Press **[Boot Manager]**

   At this point the Constellation II program checks

for the slot number if there is more than one drive available. If the prompt has the wrong slot as the default press the slot number, and continue.

Press **[RETURN]**

Now the Constellation II program checks for the proper passwords to enter the Boot Manager routine. Type the appropriate passwords and press **[RETURN]**.

Press **[Remove File]**

At this point the program asks for the type of boot file to be removed.

Type **CONCEPT**
Press **[RETURN]**

The program asks the following question:

OK to remove boot file /CORVUS/BOOT.Concept (Y/N) **Y**

Press **[RETURN]**

A message displays saying that the file has been purged, and that you are to press <space> to continue.

Press **[SPACE]**
Press **[Add File]**

A prompt appears asking for the name of the boot file.

Type **/CCUTIL/BOOT.CONCEPT**
Press **[RETURN]**

The program asks for the type of computer being used.

Type **CONCEPT**
Press **[RETURN]**

The program asks the following question:

OK to add boot file /CORVUS/BOOT.Concept (Y/N) Y

Press **[RETURN]**

A message displays saying that the file has been added, and that you are to press <space> to continue.

Press **[SPACE]**
Press **[Exit]**
Press **[Exit]**

The Dispatcher level should reappear, and the boot file has been added. Before continuing to use the Concept go back into the Mount Manager program and unmount the volume Corvus.

FIRMWARE UPDATE

Corvus periodically issues new versions of disk controller code refered to as firmware. Corvus firmware version number 18.4AP or later allows a Corvus disk to operate with a Corvus Concept Workstation.

Copying firmware onto the disk is known as updating the firmware, and is accomplished with the disk diagnostic program, called DDIAG, on the Corvus FBOOT diskette.

1. PLACE THE /FBOOT DISKETTE IN THE DISKETTE DRIVE.

   Type **/FBOOT**
   Press **[SetVol]**

2. RUN THE DIAGNOSTIC PROGRAM.

   Type **DDIAG**
   Press **[RETURN]**

For an Omninet installation the System window displays:

```
  Slot 1: a Corvus x" floppy interface
  Slot 2: no interface
  Slot 3: no interface
  Slot 4: no interface
  Slot 5: an OMNINET interface


Select slot number [5]: 0
```

For a local disk installation the System window displays:

```
  Slot 1: a Corvus x" floppy interface
  Slot 2: a Corvus disk interface
  Slot 3: no interface
  Slot 4: no interface
  Slot 5: no interface


Select slot number [2]: 0
```

Press the number corresponding to the proper slot. For a local drive press **2**, for an Omninet network drive press **5**, then

Press **[RETURN]**

For a local disk installation skip step 2 and continue with step 3. Step 2 appears only when performing an Omninet disk setup.

3. ANSWER THE OMNINET PROMPT.

When performing an Omninet setup the following prompt appears in the System window:

```
-------------------------------------------------------

Select server number [0..63]: 0

-------------------------------------------------------
```

This should be answered with the default value of 0 by pressing [RETURN].

Press **[RETURN]**

4. THE FOLLOWING MENU APPEARS ON THE SCREEN:

```
-------------------------------------------------------
  V - Version check
  P - Display/modify drive parameters
  X - Perform servo exercise
  C - Perform CRC scan for bad tracks

  S - Set diag data block file name
  U - Update firmware on disk
  F - Perform platter format

  O - Park heads of disk
  M - Manual mode

  E - Exit
-------------------------------------------------------
```

For a local disk drive system the line just below the menu displays:

```
-------------------------------------------------------
  Current slot is 2; server is 64

-------------------------------------------------------
```

For an Omninet disk drive system the line just below the menu displays:

```
Current slot is 5; server is 0
```

The DDIAG function key labels are as follows:

DDIAG

F1	F2	F3	F4	F5
Vrsion		Param		PrepNm

F6	F7	F8	F9	F10
Exrcis	CRCtst			Exit

DDIAG with [COMMAND] held down

F1	F2	F3	F4	F5
		Update		Format

F6	F7	F8	F9	F10
Park		Manual		

5. UPDATE THE FIRMWARE ON THE DISK DRIVE.

   Press **[Update]**

   The System window displays the following:

```
The option you have selected may
destroy data on the drive.  Please
make sure that you are talking to
the proper drive.

Target controller is: slot 2, server 64

Continue?  [Y/N]
```

In the case of the Omninet network disk system the first paragraph of the message is the same, and the rest appears as follows:

```
FORMAT and UPDATE options require the
diag block and firmware files to be on
a controller other than the target
drive.

Target controller is: slot 5, server 0

Continue?  [Y/N]
```

6. CHECK THE SLOT AND SERVER PARAMETERS.

The above message simply serves to double-check that you are copying the firmware to the correct Corvus disk drive. Be certain that the slot number shown is the same as the slot to which the drive is connected (slot 2 for a local disk or slot 5 for an Omninet network disk). If the slot numbers agree:

Press **Y**

The System window displays:

```
-------------------------------------------------

  Update firmware on which drive? 1

-------------------------------------------------
```

7. SPECIFY WHICH DRIVE TO UPDATE.

   Press **[RETURN]**

   The System window displays:

```
-------------------------------------------------

  Change drive tables?  N

-------------------------------------------------
```

8. SPECIFY NO CHANGE TO THE DRIVE TABLES.

   Press **[RETURN]**

   The System window displays:

```
-------------------------------------------------

  Enter firmware file name: CF18.4AP

-------------------------------------------------
```

9. SPECIFY THE NAME OF THE FIRMWARE FILE.

   Press **[RETURN]**

   The System window displays:

```
-------------------------------------------------

  Reading firmware from CF18.4AP.DATA

  ..........................................

  Firmware written.

-------------------------------------------------
```

The Command window displays:

```
+-------------------------------------------------+
|                                                 |
| Press <space> to continue                       |
+-------------------------------------------------+
```

Press **[SPACE]**

The DDIAG menu reappears in the System window, and the function key labels redisplay.

10. LEAVE THE DIAGNOSTIC PROGRAM.

You have now completed the firmware update procedure. The next step is to exit the DDIAG program.

Press **[Exit]**

The Dispatcher labels redisplay.

SYSTEM STATUS

When the boot file and firmware have been updated, do the following:

Hold down **[CTRL]** and
Press **[BREAK]**